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Docket No. 1155-0222P - Filed August 31, 2001
Inventor: Terunori FUJITA et al
Birch, Stewart, Kolasch & Birch, LLP
703)205-8000

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Fig.1

(A) Transition metal compound

$$\begin{pmatrix}
R^1 \\
R^2 \\
C \\
N \\
N \\
MX_n$$

$$R^4 \\
R^6 \\
R^5 \\
M$$

M: Transition metal atom of Groups 3-11

 $R^1 - R^6$:H, hydrocarbon group, etc.

m:1-6

n :Number satisfying valence of M

X: Hal, hydrocarbon group, etc.

(B)

Organometallic compound

Olefin

Organoaluminium oxy-compound

Compound reacting with transition metal compound to form ion pair

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Fig.2

(A) Transition metal compound

M: Transition metal atom of Groups 3-11

 $R^1 - R^{10}$: Hal, hydrocarbon group, etc.

n: Number satisfying valence of M

X: Hal, etc.

Y: Hydrocarbon group of C3 or more, etc.

(B)

Organometallic compound

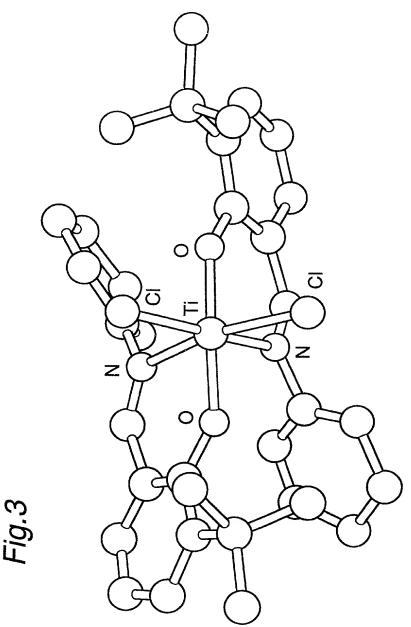
Olefin

Organoaluminium oxy-compound

Compound reacting with transition metal compound to form ion pair

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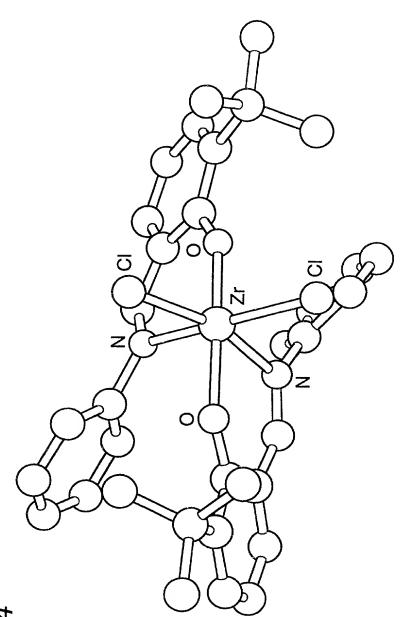
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Structure of Compound A-1 from X-ray crystal structure analysis

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Structure of Compound B-1 from X-ray crystal structure analysis